

Abstract

A method and apparatus for monitoring a fuel vapor recovery system to determine if a leak condition exists in either the vapor return passage in a fuel dispenser or a common vapor return pipe. An air-flow sensor (AFS) may be located in the common vapor return pipe for all of the dispensing points at a service station, or in each fuel dispenser and coupled to the dispensing points of the fuel dispenser. The AFS registers vapor flow recovered by a dispensing point(s) that is returned back to the storage tank. If the AFS measures vapor flow when such dispensing point(s) coupled to such AFS is not actively recovering vapor, this is indicative of a leak in such dispensing point(s). The leak condition is reported by a tank monitor or other reporting system so that appropriate measures can be taken.